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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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(21) International Application Number: PCT/KR99/00087 (22) International Filing Date: 26 February 1999 (26.02.99) (30) Priority Data: 1998/6705 2 March 1998 (02.03.98) KR (71) Applicant (for all designated States except US): KOREA SECURITY PRINTING AND MINTING CORPORATION [KR/KR]; 35, Kajong-dong, Yusong-gu, Taejon 305-350 (KR). (72) Inventors; and (75) Inventors/Applicants (for US only): KIM, Jong, Kyu [KR/KR]; Kangbyun Apt. 109-1702, Mannyun-dong, Seo-gu, Taejon 302-150 (KR). PARK, Yong, Hwan [KR/KR]; Green Town Apt. 106-405, Beob-dong, Taeduk-gu, Taejon 306-060 (KR). (74) Agents: JANG, Seong, Ku et al.; 17th floor, KEC Building, 275-7, Yangjae-dong, Seocho-ku, Seoul 137-130 (KR).		(81) Designated States: CN, RU, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i>
(54) Title: SECURITY FIBERS AND PROCESS FOR THE PREPARATION THEREOF (57) Abstract Security fibers having enhanced antifalsification features are prepared by a process which comprises the steps of: i) braiding 5 to 30 denier fibers to form a twine; ii) dyeing the twine with a dye or pigment; iii) drying the dyed twine; and then iv) cutting the dried twine to give the security fibers in the form of cut fibers.		

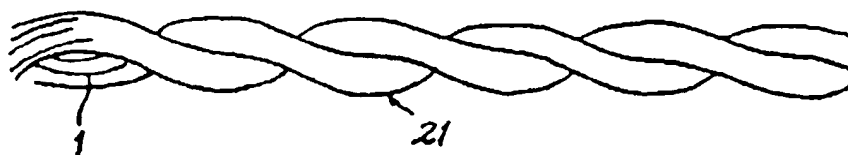
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What is claimed is:

1. A process for preparing security fibers which comprises the steps of: i) braiding 5 to 30 denier fibers to
5 form a twine; ii) dyeing the twine with a dye or pigment; iii) drying the dyed twine; and then iv) cutting the dried twine to give the security fibers in the form of cut fibers.
- 10 2. The process of claim 1, further comprising the step of v) dyeing the cut fibers with another dye or pigment after step iv).
- 15 3. The process of claim 1 or 2, wherein the twine is in the form of a two-thread plait.
4. The process of claim 1 or 2, wherein the twine is in the form of a three-thread plait.
- 20 5. The process of claim 2, wherein the cut fibers are dyed at a temperature ranging from 80 to 100°C.
6. A security fiber prepared by the process of any one of claims 1 to 5.
- 25 7. A security paper containing the security fiber prepared by the process of any one of claims 1 to 5.

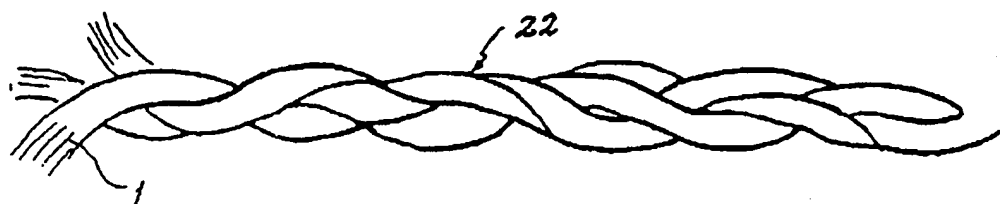
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Figure 1



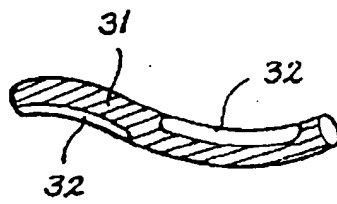
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Figure 2



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Figure 3



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Figure 4

